DOCUMENT RESUME

ED 469 148 EF 006 147

TITLE	Myth and Reality: A Study of Excess Space in the District of Columbia Public High Schools. A Case Study of Cardozo and McKinley Technology Senior High Schools.
INSTITUTION	Twenty-First Century School Fund, Washington, DC.
SPONS AGENCY	Morris and Gwendolyn Cafritz Foundation, Washington, DC.; Eugene and Agnes E. Meyer Foundation, Washington, DC.
PUB DATE	2002-05-01
NOTE	46p.; Also prepared by SHAPPE (Senior High Alliance of Parents, Principals, & Educators). Colored photographs and charts may not reproduce well.
PUB TYPE	Reports - Research (143)
EDRS PRICE	EDRS Price MF01/PC02 Plus Postage.
DESCRIPTORS	*Design Requirements; Educational Facilities Improvement; High Schools; *Measurement; *School Space; Space Utilization; *Standard Setting
IDENTIFIERS	*District of Columbia Public Schools; Historical Preservation

ABSTRACT

This study involved an in-depth floor space analysis of Cardozo Senior High School, and a review of design plans for a modernized McKinley Tech High School (both in Washington, DC), in order to prompt District of Columbia public schools to develop accurate measurements of useable (i.e., net) floor space, thereby allowing design standards flexible enough to accommodate old and historic schools. Detailed findings from the floor space analyses led to the following recommendations: (1) revise the standard specs to allow greater flexibility so that existing high schools will not face a complete demolition of their interiors at extremely high cost; (2) change the floor space design standard value or eliminate its use altogether; (3) calculate the quantity of net floor space by measuring instructional and administrative space, thereby helping with the determination of enrollment capacities; (4) reexamine the quantity of total existing gross floor space, which is critical to the determination of excess space; and (5) undertake site studies to determine whether structured parking or other improvements are possible to alleviate site constraint problems. Contains several tables of floor space analysis. Appendices contain floor plans, a list of rooms measured at Cardozo, and a comparison between Cardozo and standard specs of net floor spaces and student capacities. (EV)

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ED 469 148

Myth and Reality:

A Study of Excess Space in the District of Columbia Public High Schools

A Case Study of Cardozo and McKinley Technology Senior High Schools

May 1, 2002

EF 006 147

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The **21st Century School Fund** is a non-profit organization dedicated to building the public will and capacity to modernize public school facilities so they support quality education and community revitalization.

The **Senior High Alliance of Parents, Principals & Educators (SHAPPE)** is a coalition of parent leaders, principals and educators who are dedicated to continuous improvement of the District's public high schools. They are also committed to ensuring that those actually in the high schools are a part of the decision making to bring about this improvement.

This report was made possible by funding from the Eugene and Agnes E. Meyer Foundation and the Morris and Gwendolyn Cafritz Foundation.

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Introduction

Public Education Facilities Planning

The District of Columbia is in the early years of a ten to fifteen year initiative to either modernize or replace nearly all of its public school buildings. The District of Columbia Public Schools (DCPS) developed a Facility Master Plan, adopted by the District Board of Education on March 7, 2001, that outlines a process for this initiative. Annually, the DCPS prepares a six year capital improvements program that describes the spending plan and priorities of the school district's master plan on a project specific basis. This budget is set by the mayor based on the school systems request, and approved or authorized by the Council and Congress. Once the capital budget is authorized, the District government borrows the funds necessary to carry out the capital improvements program and to meet the spending requirements of the approved capital projects.

The development of the Facility Master Plan was a tremendous step forward for the District. However, an additional planning effort is needed for the high schools. One reason is that the high schools were unevenly spread among the eight regional planning areas utilized in the overall planning process (i.e., some planning areas had one high school, while other areas had multiple high schools). Another reason is that the affect of modernizing, expanding or decreasing enrollment in one high school has a considerable effect on the other high schools. This is made more pronounced since high school students are able to travel to attend a wide selection of high schools. A third reason is that career technical education, special education, athletics and specialty magnet programs need to be coordinated and planned so there is an equitable and efficient distribution of these opportunities.

Need for Better Understanding of High School Buildings

In support of the high school planning process, the 21st Century School Fund (21CSF) and the Senior High Alliance of Parents, Principals, and Educators (SHAPPE) jointly undertook: (1) an in-depth floor space analysis of Cardozo Senior High School, the first on the list of thirteen District high schools that have yet to begin renovation; and (2) a review of design plans for a modernized McKinley Tech High School, the first high school for which renovation work has begun. Cardozo is located at 1300 Clifton St., NW, and in 2001-2002 it has an enrollment of 780 students. McKinley is located at 2nd and T Streets, NE, and was closed in 1997. Before closing, it had an enrollment of 859 students.

There are four compelling reasons 21CSF and SHAPPE undertook this study.

1. A belief that a DCPS estimate of the quantity of excess floor space in the high schools may be incorrect.

2. An immediate need to accurately assess the quantity of excess floor space that is available for swing space, special education programs, charter schools, and community use.

3. A belief that the DCPS enrollment capacity assignments, and estimates of capacity utilization, for the high schools may be incorrect.

4. A concern that strict adherence to a DCPS floor space standard and guidelines will make the cost of modernization beyond the reach of the District, and result in major interior demolition at an extremely high cost.

With this study, 21CSF and SHAPPE hope to prompt DCPS to: (1) develop accurate measurements of useable (a.k.a. *net*) floor space (which includes classrooms, offices, storage, instructional support and physical education, assembly and cafeteria areas) for all schools, beginning with the high schools; (2) do a quality check on the quantity of total *gross*[1] floor space

[1] *Gross* floor space encompasses all of the roofed interior spaces within a school building, and is measured from the exterior face of outer walls. It is the *net* floor space plus the floor space for mechanical and electrical rooms, maintenance rooms, pipe tunnels, hallways, passages, elevators, stairwells, and toilets.

of existing schools, beginning with the high schools; (3) revise existing Standard Education Specifications and a floor space design standard to be flexible enough to accommodate the modernization of the District's old and historic schools, beginning with the high schools; and (4) develop a plan to assist the high schools use their space more efficiently.

Background

High School Inventory

There are 18 high schools within DCPS. These schools are listed in chronological order in Table I, along with the year they were built, their age, and whether they are to be modernized or replaced.

Table I: Year Built, Age, and Proposed Action
for District High Schools

School	Year Built	Age	Proposed Action
School Without Walls	1882	120	Modernize
Luke Moore	1891	111	Modernize
Ellington	1898	104	Modernize
Bell	1910	92	Replace
MM Washington	1912	90	Modernize
Cardozo	1916	86	Modernize
Eastern	1923	79	Modernize
McKinley Tech	1928	74	Modernize
Roosevelt	1932	70	Modernize
Phelps	1934	68	Modernize
Anacostia	1935	67	Replace
Wilson	1935	67	Modernize
Banneker	1939	63	Modernize
Coolidge	1940	62	Modernize
Spingarn	1941	61	Modernize
Ballou	1960	42	Modernize
Woodson	1973	29	Replace
Dunbar	1977	24	Modernize
Average Age		**73**	

The average age of the 18 high schools is 73 years. According to The 21st Century School Fund's Format Pro[2] database, these high schools have the following building and enrollment statistics:

- there is 3,868,811 *gross* square feet (GSF) of floor space in all of the high schools combined
- the total enrollment capacity is 18,381 students
- the total enrollment in the 2000-2001 school year was 12,829 students, or 70% capacity utilization

High School Space Requirements

In December 1999, DCPS released Standard Education Specifications for the District's high schools. Education specifications (ed specs) are architectural guidelines for a school building, including floor space and student capacity requirements, which have been distilled from information about planned educational and operational activities of the school. Site-specific ed specs, based upon the standard ones, are developed for each school renovation.

As part of the Facility Master Plan, DCPS then set a *gross* floor space design standard for the high schools of 180 GSF per student (GSF/S). In the Capital Improvements Program of 2001, this value was changed to 192 GSF/S, due to significant challenges in trying to program existing high schools with large cafeterias, auditoriums, and other specialty spaces. The large size of these spaces has the effect of making the high schools appear oversized, on a GSF/S basis.

Using the revised floor space design standard, and multiplying it by the total high school enrollment of 12,842 students, results in an optimum *gross* floor space for all of the high schools

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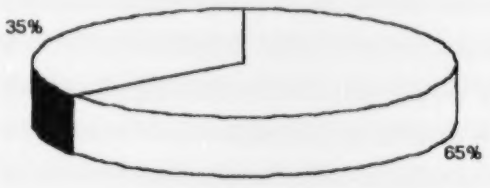
[2] "Facilities, Operations Resource, Management Analysis, Tool (Format Pro)." A facilities database managed by The 21st Century School Fund.

combined of 2,465,664 GSF. A comparison of the optimum *gross* floor space of 2,465,664 GSF to the total existing *gross* floor space of 3,789,900 GSF in DCPS records leads to the estimate that has been drawn by DCPS that there is 1,324,236 GSF of excess *gross* floor space in all of the high schools. In other words, DCPS estimates that the total *gross* floor space of the existing high schools is underutilized by 35%, as seen in Figure 1, even after increasing the floor space design standard.

Figure 1:
DCPS High Schools Total Floor Space



Scope and Findings

Details of Study at Cardozo and McKinley

This study examined the validity of the DCPS estimate that 35% of its total *gross* floor space is excess, and the suitability of the current floor space design standard, by comparing the *gross* floor spaces of both the existing Cardozo building and the old McKinley building to DCPS records. Cardozo has a recorded *gross* floor space of 355,400 GSF, and McKinley had a recorded *gross* floor space of 282,200 GSF prior to renovation. In the study, an alternative *gross* floor space value was calculated for Cardozo, while an alternative value for the old McKinley was obtained from a modernization design report. Comparison of these alternate values to the

ones in DCPS records provides an indication of the accuracy level of the DCPS value for total *gross* floor space in all of the high schools.

The study also examined the suitability of the DCPS ed specs for the modernization or replacement of the high schools, by determining the existing *net* floor space at Cardozo and comparing it to the proposed *net* floor space provided in the standard ed specs for an 800 Student Model school. A review of the modernization design work at McKinley provided a comparison between *net* floor space in the same standard ed specs, in site-specific ed specs developed for the modernization, and in the architectural design developed for the modernization.

The study also looked at the DCPS capacity number for Cardozo and compared it to the standard ed specs capacity assignments. Finally, a comparison was made between the existing site facilities at Cardozo and the site facilities provided for in the standard ed specs for an 800 Student Model school.

Findings for Cardozo and McKinley

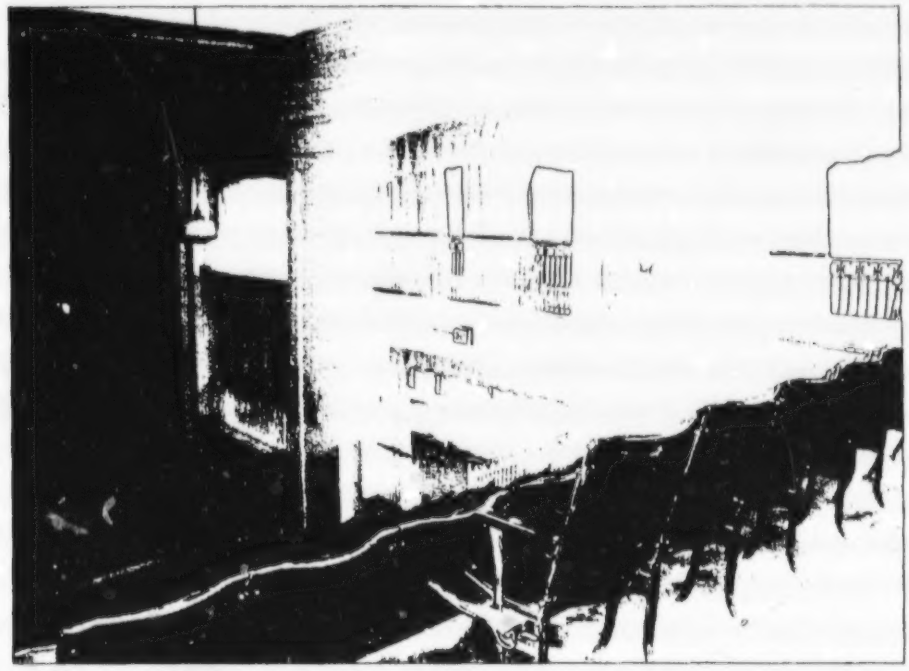
The results from the in-depth study of Cardozo indicate:

- The calculated *gross* floor space is 290,672 GSF, which is 18% less than the value of 355,400 GSF recorded by DCPS. The DCPS value seems to include some floor space as *gross* that it shouldn't, including uncovered interior courtyards and nonexistent floor space in the upper levels of the auditorium and gymnasiums.

- The measured existing *net* floor space is 145,310 NSF, which is 50% more than the value of 96,590 NSF in the standard ed specs for an 800 Student Model school. Some of the existing spaces in Cardozo are either not included or undersized in the ed specs, including labs, shops, and the armory, rifle range, pool, auditorium, and cafeteria.

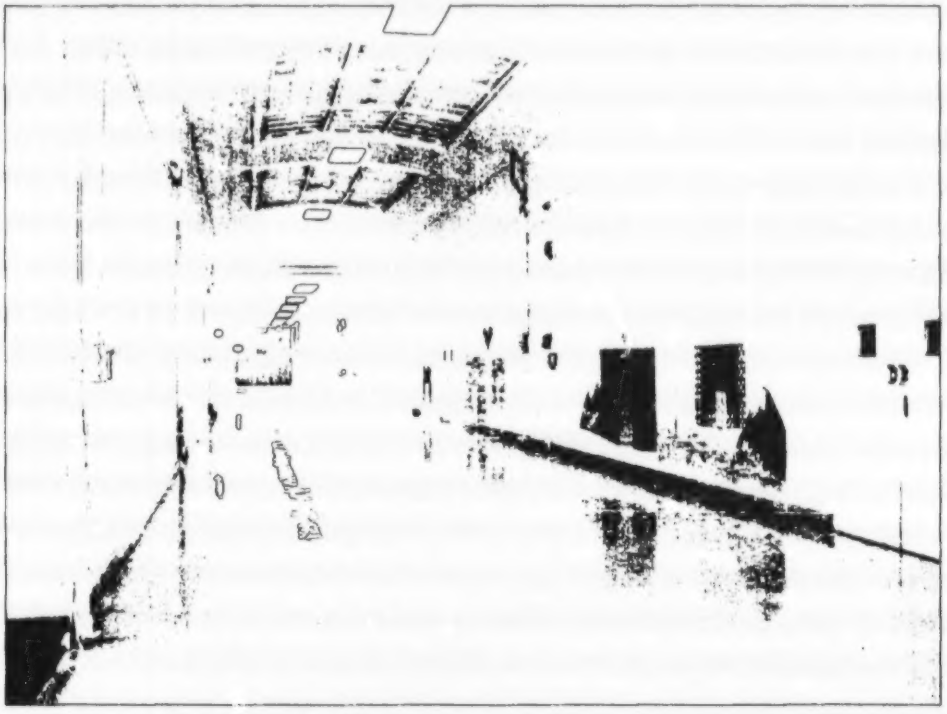
- Labs, shops, and the armory, rifle range, pool, auditorium, and cafeteria spaces account for 72% of the difference between the *net* floor space in Cardozo and in the standard ed specs.

Cardozo Auditorium



- The sum of the floor spaces for maintenance rooms (custodial offices and closets), utility rooms (mechanical/electrical rooms, pipe tunnels, and toilets), and building support spaces (hallways, stairwells, passages, elevators, and walls) is 145,362 SF, which is 50% of the total *gross* floor space.

Cardozo Hallway



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- The student capacity of the existing building, using ed specs teaching stations, is 1,335, which is 15% less than 1,578 recorded by DCPS. Based on capacity, the standard ed specs provides for 118 NSF per student (96,590 NSF with 820 students), compared to 109 NSF per student (145,310 NSF with 1,335 students) in the existing building.

- The school does not have most of the site facilities that are provided for in the standard ed specs. The only standard ed specs facilities that the school does have are a multipurpose grassy play field, a track, bleacher seating, and tennis courts.

Cardozo Staff Parking

The results from the review of the modernization work at McKinley indicate:

- The architects designing the modernized McKinley recorded the *gross* floor space of the old building as 300,000 GSF, which is 6% more than the value of 280,200 GSF recorded by DCPS.

- The total *net* floor space after modernization is designed to be 129,074 NSF, which is 18,879 NSF (or 17%) more than the value of 110,195 NSF in the site-specific ed specs, and 32,484 NSF (or 34%) more than the value of 96,590 NSF in the standard ed specs.

- The library, auditorium, gym, and cafeteria account for 95% of the difference in total modernized *net* floor space between the architectural design and the site-specific ed specs.

Methodology

Determination of Gross Floor Spaces

The calculation of the existing gross floor space at Cardozo was performed using measurements from DCPS architectural drawings (i.e., floor plans) of the school. The drawings are scaled, with dimensions, and a basic ruler was used to measure floor lengths and widths in feet. Gross floor space was determined for each floor of the building (and then added together) by calculating the total area within the exterior walls of the building for that floor, and then subtracting the areas for which either no actual floor exists or there is no roof overhead. For example, determination of the gross floor space of the ground floor involved calculating the total area within the exterior walls, and then subtracting the areas of the two courtyards (for which there is no roof). Simple floor diagrams of the layouts at Cardozo and the old McKinley, accompanied by charts listing room usage, are included in Appendix A.

The determination of the gross floor space for the old McKinley design was achieved by obtaining data from a modernization design report prepared by the project architects.[3] No actual measurements were performed at McKinley in this study. The design report provides a value for the old gross floor space at McKinley prior to modernization.

Determination of Net Floor Spaces

The determination of the modernized *net* floor space at McKinley was also achieved by obtaining data from the modernization design report. The report provides modernized *net* floor spaces from site-specific ed specs developed for the modernization, and from the modernized design developed by the architects. A summary of these new *net* floor spaces, by functional room categories, is provided in Table II.

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[3] "Design Analysis: The Technical High School at McKinley," Volume 1, McKissack & McKissack, Jan. 21, 2002.

Table II: Comparison between Standard Ed Specs, Site-Specific Ed Specs, and the Architectural Design of *Net* Floor Spaces at a Modernized McKinley

Room Category	Modernized *Net* Floor Space (ft^2)		
	Standard Ed Specs	Site-Specific Ed Specs	Architectural Design
Core Academic	42,700	50,000	51,533
Career Tech. & Educ.	4,375	0	0
Media Center/Library	4,350	4,350	6,186
Visual Arts	1,600	2,900	2,929
Performing Arts	5,625	16,425	27,884
JROTC	2,000	2,000	2,088
Physical Education	19,800	18,950	21,764
Family & Consumer Science	0	1,830	0
Administration	5,440	4,990	5,918
Guidance	1,550	1,550	1,785
Dining/Commons	9,150	7,200	8,987
Total	**96,590**	**110,195**	**129,074**

The measurement of existing net floor space at Cardozo entailed walkthroughs and physical measurements at the school (accompanied by either the principal or members of the custodial staff) on two occasions: January 28, 2002 and February 1, 2002. The physical measurements involved either directly or indirectly measuring the floor dimensions of the following room types: classrooms, labs, shops, media center/library, physical education, JROTC, guidance, health, administration, dining/commons, and storage. The shaded portions of the Appendix A diagrams of Cardozo indicate the rooms measured.

Direct measurements of the rooms at Cardozo were performed, where possible, with a standard hardware tape-measure or a hand-held sonic measuring device. Indirect measurements, in which dimensions were measured with the abovementioned drawings, were performed in rooms that were not easily-accessible or amenable to direct measurement with these tools. Another adjustment that was made in the study, for simplicity, was that the individual rooms in the nurse/health and guidance suites (e.g., offices and waiting rooms) were measured as one large room for each suite.

After the dimensions of individual rooms at Cardozo were measured, their areas were calculated. A sum of the calculated areas for each functional room category and subcategory (i.e., large general classrooms, standard general classrooms, etc.) was then determined. A complete list of the individual rooms measured at the school, their school-assigned IDs, their floor dimensions, and their floor spaces is provided in Appendix B.

The area totals for each of the measured room categories and subcategories at Cardozo (i.e., Current), as well as the room quantity and capacity of each, were then compared with similar data from the standard ed specs for an 800 Student Model school (i.e., Proposed). This information is provided in Appendix C. A summary of floor space and student capacity for each of the room categories, for the existing building and standard ed specs, is provided in Table III.

In addition to examining the net floor spaces, the quantity of the existing site facilities at Cardozo was also compared to the standard ed specs for an 800 Student Model school. This information is listed in Table IV.

Table III: Comparison of Actual and Standards for Net Floor Space and Student Capacity at Cardozo

Room Category	*Net* Floor Space (ft^2)		Student Capacity		
	Standard Ed Specs	Existing Building	Standard Ed Specs	Existing Building	DCPS Capacity
Core Academic	42,700	51,456	634	1,105	1,386
Career Tech. & Educ.	4,375	13,104	18	90	108
Media Center/Library	4,350	4,560	0	0	
Visual Arts	1,600	1,240	21	21	
Performing Arts	5,625	3,336	42	56	
JROTC	2,000	6,668	21	21	
Physical Education	19,800	21,234	84	42	84
Administration	5,440	13,048	0	0	
Guidance	1,550	1,152	0	0	
Dining/Commons	9,150	29,512	0	0	
Total	**96,590**	**145,310**	**820**	**1,335**	**1,578**

Table IV: Comparison between Standard Ed Specs and Existing School Of Site Facilities at Cardozo

Facility	Quantity	
	Standard Ed Specs	Existing
Multi-Purpose Grassy Play Field	1	1
Press Box (10-15 people)	1	0
Concessions/Restrooms	1	0
Exterior Grounds Equipment	1	0
Exterior Athletic Storage	1	0
400 Meter Track, 200 Meter Straight-Away	1	1
Bleacher Seating for 1600	1	1
Long Jump & Triple on one side	1	0
Pole Vault Pit	1	0
Shot Put	1	0
Multi-Purpose Grassy Practice Field	1	0
Tennis (4 courts)	1	1
Outdoor Paved Play Area (3 full courts)	1	0
Fitness Trail (12-16 stations)	1	0
Baseball Field	1	0
Softball Field	1	0

Conclusions

The District's existing high school inventory presents a unique challenge to the school renovation initiative currently underway within DCPS, because of the significant age of most of these buildings and the nature of their designs. 15 of the 18 schools were built prior to World War II, and many of them were built with grand civic specialty spaces, such as auditoriums and armories. Specific conclusions are:

1) The current DCPS Standard Education Specifications are unsuitable for modernizing most of the District's high schools, because of their inflexible floor space requirements. These schools contain large specialty spaces (including labs, shops, pools, auditoriums,

gymnasiums, armories, and rifle ranges), which either do not appear or are undersized in the ed specs.

2) The current gross floor space design standard of 192 GSF/S is unsuitable for space planning and project estimating in the modernization of the District's high schools. It may work for new construction or replacement of a high school, but 15 of the 18 high schools are expected to be modernized. It is a useful tool for master planning, but needs to be changed when preparing capital budgets.
3) The DCPS estimate for total enrollment capacity in all of the high schools of 18,171 students is an exaggeration of the actual capacity of these schools, given their design and the program requirements of the high schools. Consequently, the DCPS estimate that the high schools are as much as 30% underutilized is incorrect.
4) It is likely that the DCPS value for total existing *gross* floor space in all of the high schools of 3,868,811 GSF will need to be revised. If so, the DCPS estimate that there is 1,324,236 GSF of excess *gross* floor space in the high schools will also need revision.
5) The high schools are lacking so many of the site improvements (parking, field space, field houses, etc.) that, in effect, there are no site standards for the high schools.

Recommendations

On a project-specific basis, architects, planners, local schools, and communities need to proceed in the high school planning process with common and accurate information, and to be creative in modernizing the existing buildings. Where necessary, they should make only modest changes to existing structures in order to make capital projects feasible, remembering that the program and the people are more important than the place. At a District level, DCPS needs to:

1. Revise the standard ed specs to allow greater flexibility. As it stands now, if the ed specs are strictly adhered to, then program requirements will not be met in existing schools without a compete demolition of their interiors, and at an extremely high cost.
2. Change the floor space design standard value of 192 GSF/S, or eliminate use of the standard altogether.
3. Calculate the quantity of *net* floor space in all of the high schools by measuring instructional and administrative space. This will help with the determination of enrollment capacities, and in the analysis of the current utilization of these schools.
4. Reexamine the quantity of total existing *gross* floor space in all of the high schools (3,868,811 GSF). This is critical to the determination of excess space.
5. Undertake site studies to determine whether structured parking or other improvements are possible to alleviate site constraint problems.

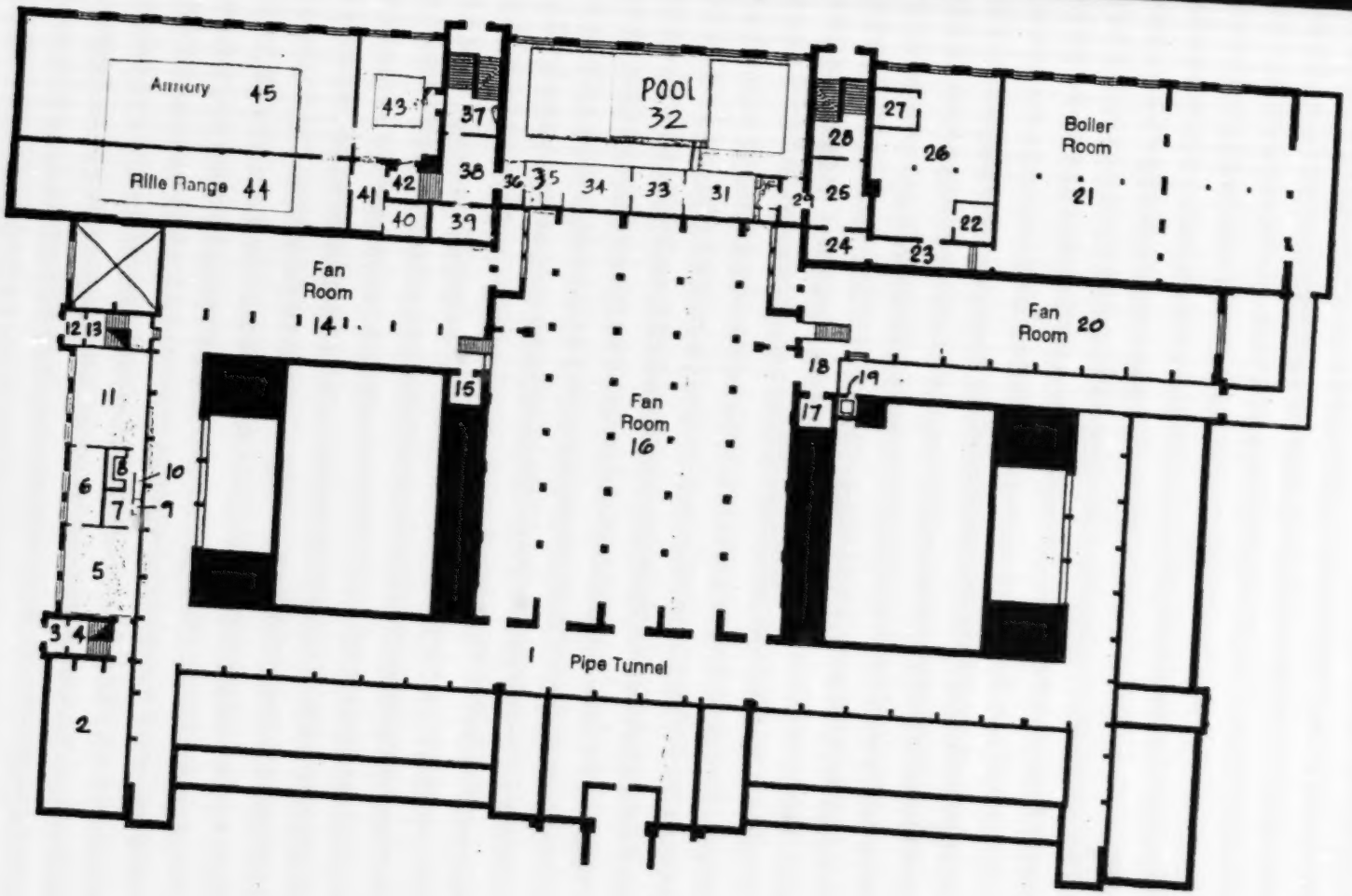
APPENDIX A

SIMPLE FLOOR DIAGRAMS OF

CARDOZO SENIOR HIGH SCHOOL

and

MCKINLEY TECH HIGH SCHOOL



Cardozo Senior High

basement floor

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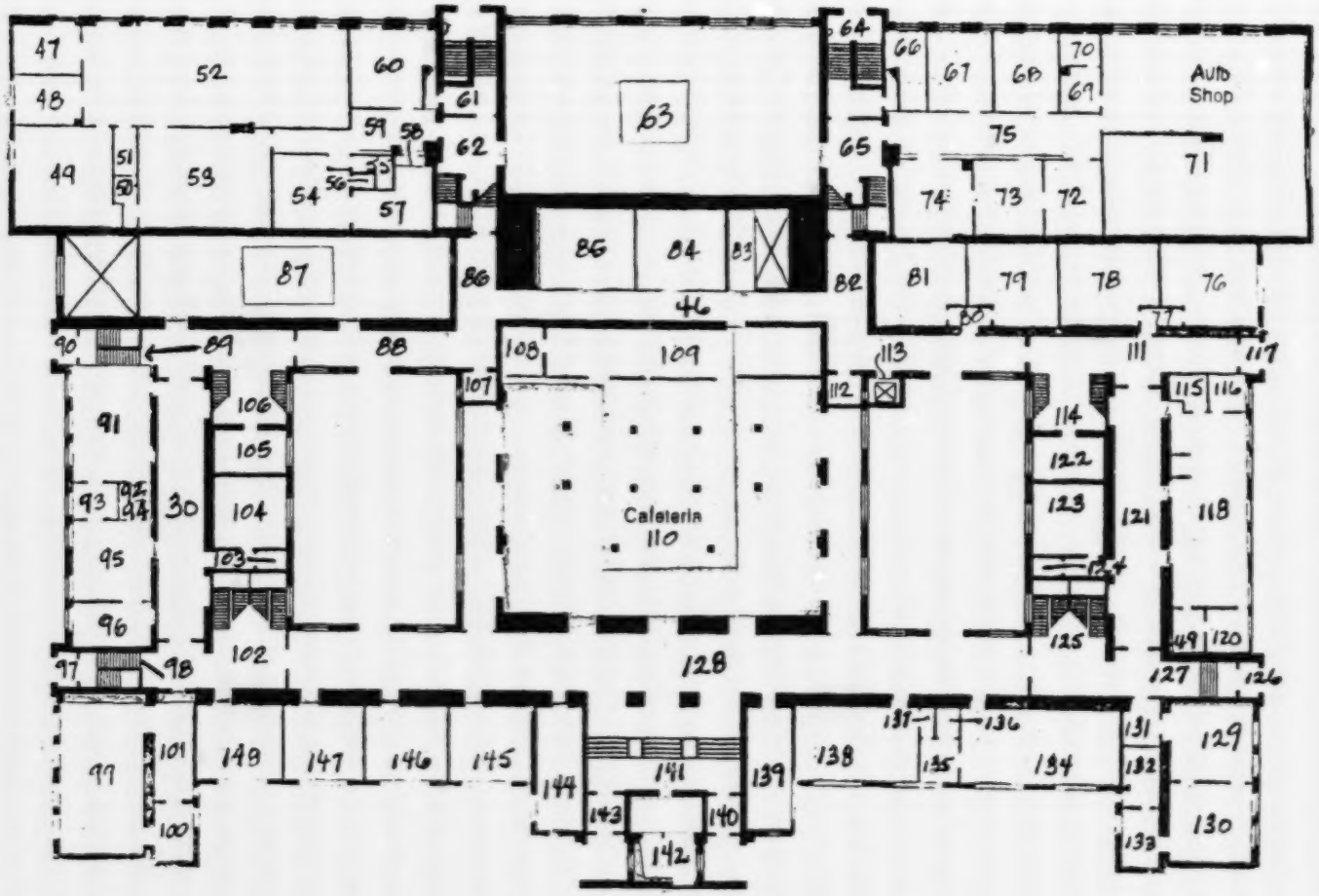

Cardozo Senior High

ground floor

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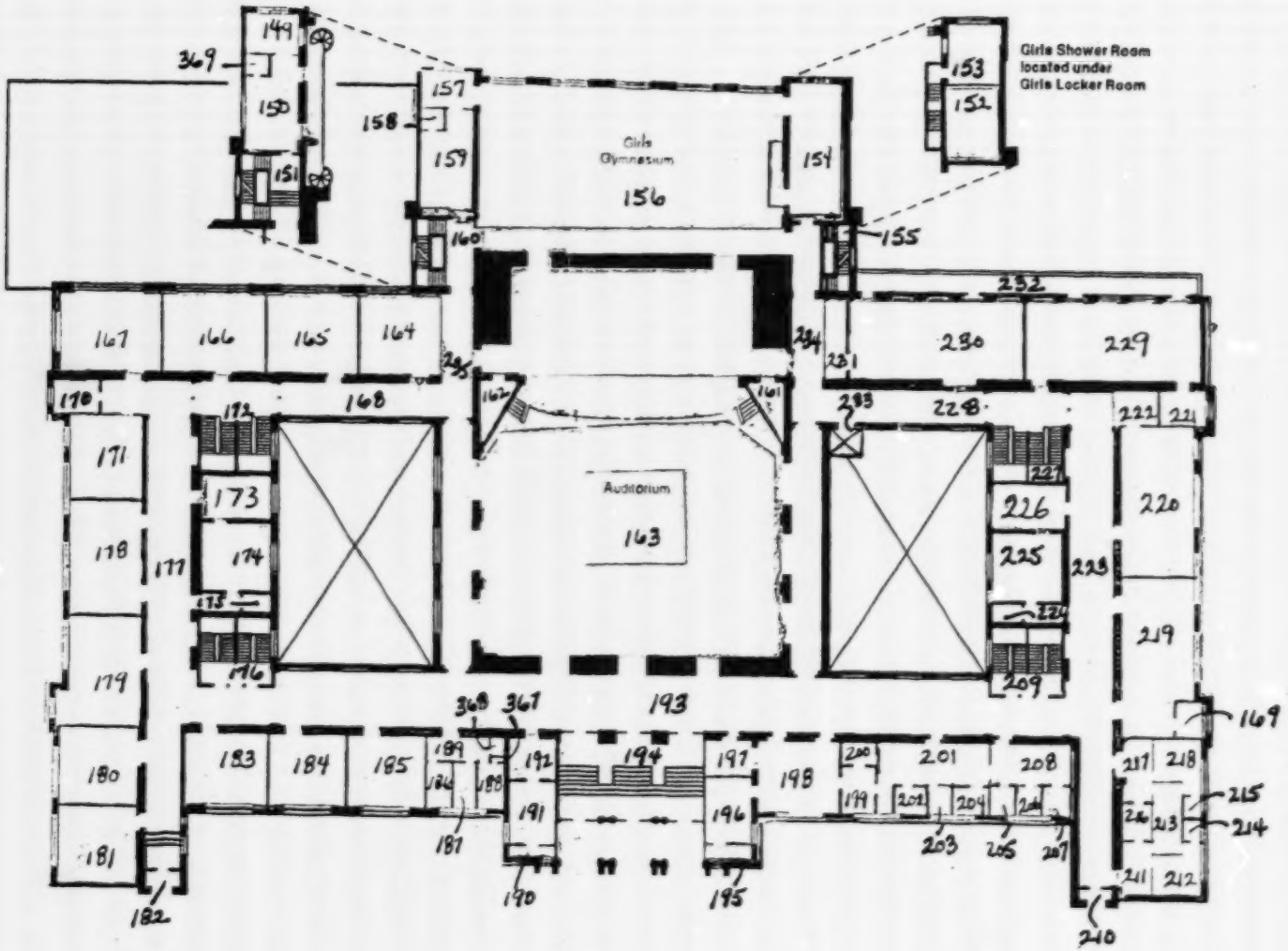

Cardozo Senior High

first floor

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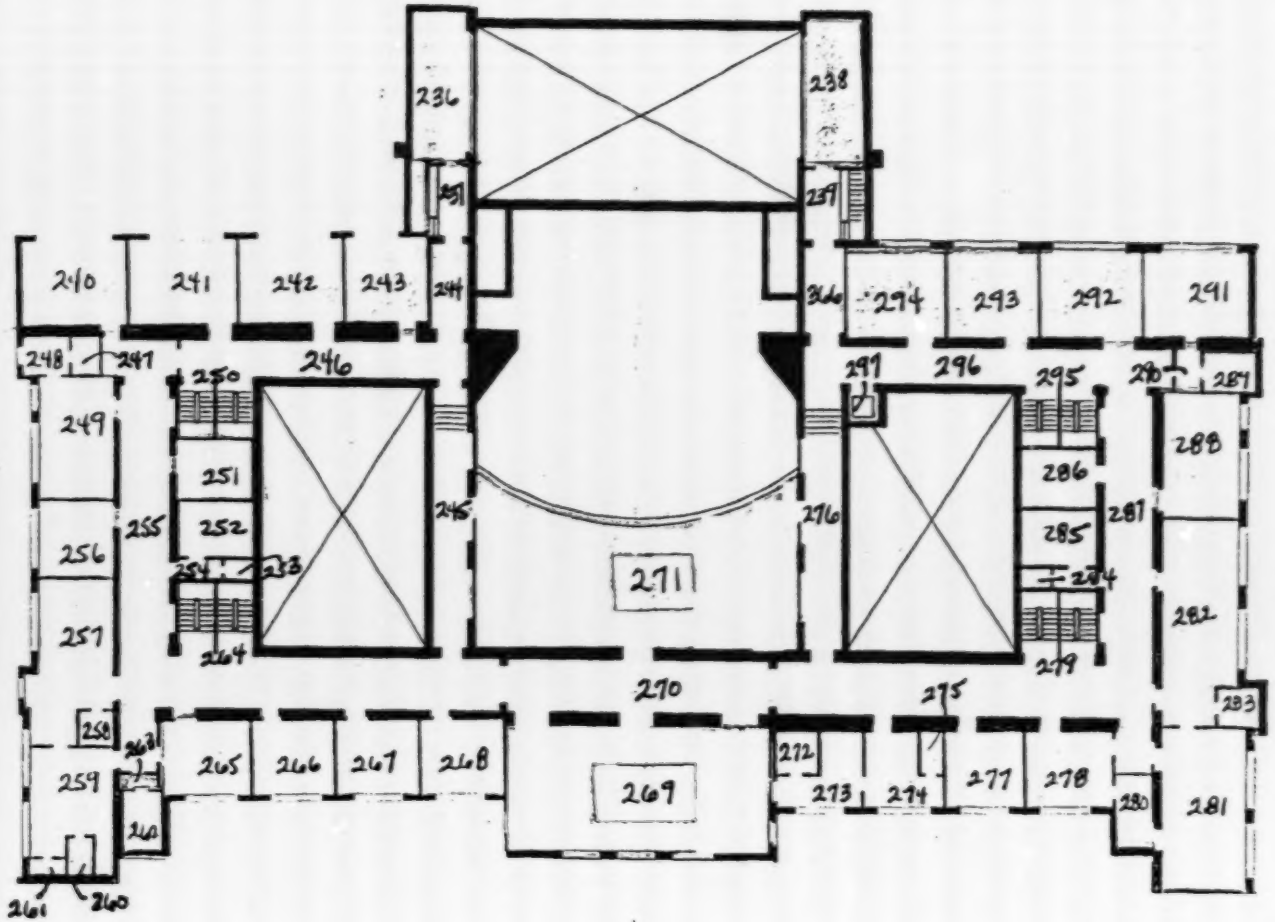

Cardozo Senior High

second floor

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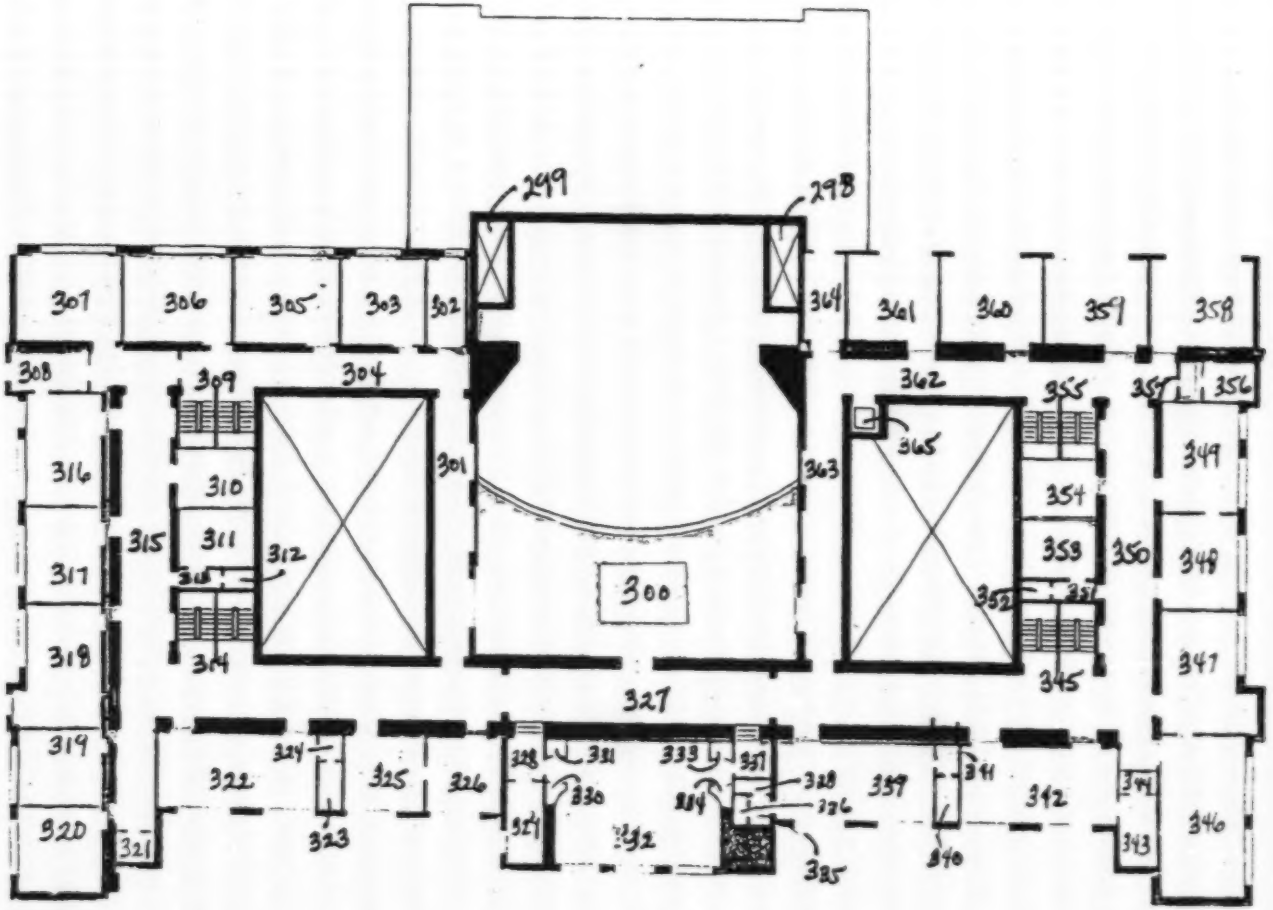

Cardozo Senior High

third floor

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Building Capacity Review

space inventory

BUILDING: Cardozo
CLASSIFICATION: Senior High
POPULATION HOUSED: 9 - 12
CONSTRUCTION: 1916

ADDRESS: 13th & Clifton Streets, N.W.
WARD: 1
SQUARE FOOTAGE: 355,400 CAPACITY: 1563
CLUSTER: 10 EXTENDED USE:

SPACE NO.	TYPE SPACE
1	Pipe Tunnel
2	Water Meter Room
3	Vestibule
4	Stairwell
5	In School Suspension
6	↓
7	
8	
9	
10	
11	
12	Vestibule
13	Stairwell
14	Fan Room
15	VOID
16	Fan Room
17	VOID
18	Vestibule
19	Elevator
20	Fan Room
21	Boiler Room
22	Office (Engineer)
23	Passage w/Steps
24	Vestibule
25	Vestibule
26	Mechanical Room
27	Storage Room
28	Stairwell
29	Vestibule
30	Corridor (near #195)
31	Toilet/Locker Room
32	Swimming Pool
33	Shower Room
34	Locker Room
35	Toilet (Pool)
36	Vestibule
37	Stairwell
38	Vestibule w/Steps
39	Office (Pool)
40	Storage Room
41	Vestibule
42	Vestibule
43	Office (ROTC)
44	Rifle Range
45	Armory
46	Corridor (near #83)
47	Storage Room

SPACE NO.	TYPE SPACE
48	Computer Lab
49	Wood Shop
50	Storage Room
51	Storage Room
52	Wood Shop
53	Electronics Lab
54	Locker Room (Boys)
55	Toilet (Boys)
56	Storage Room (Towels)
57	Shower Room (Boys)
58	Closet
59	Passage
60	Weightlifting Room
61	Stairwell
62	Stairwell
63	Gymnasium (Boys)
64	Stairwell
65	Stairwell
66	Storage Room
67	Dressing Area (Boys)
68	Laundry Room
69	Office
70	Storage Room
71	Auto Mechanics Shop
72	Weightlifting
73	"
74	"
75	Passage
76	Classroom
77	Vestibule
78	Classroom
79	Classroom
80	Vestibule
81	Classroom
82	Passage
83	Storage Room
84	Storage Room
85	Storage Room
86	Passage
87	TANIFF
88	Corridor
89	Stairwell
90	Vestibule
91	Computer Lab
92	Storage Closet
93	Office
94	Storage Closet

SPACE NO.	TYPE SPACE
95	Classroom
96	Storage Room
97	Vestibule
98	Stairwell
99	TANIFF
100	Office
101	Business Mgr
102	Stairwell
103	Custodians Closet
104	Toilet (Boys)
105	Office (Custodians)
106	Stairwell
107	Office
108	Office (Dietician)
109	Kitchen
110	Cafeteria
111	Corridor
112	Dressing Room (Kitch.)
113	Elevator
114	Stairwell
115	Storage Room
116	Office
117	Vestibule
118	Graphic Arts Lab
119	Dark Room
120	Dark Room
121	Corridor
122	Office (Custodians)
123	Toilet (Girls)
124	Custodians Closet
125	Stairwell
126	Vestibule
127	Passage w/Steps
128	Corridor
129	Classroom
130	Drivers Ed Room
131	Vestibule
132	Storage Room
133	Office
134	Computer Lab
135	Office
136	Storage Room
137	Storage Closet
138	School Store
139	Meter Room
140	Vestibule
141	Vestibule w/Steps

SPACE NO.	TYPE SPACE
142	Storage Room
143	Vestibule
144	Book Room
145	Computer Lab
146	Computer Lab
147	Computer Lab
148	Computer Lab
149	Storage Room
150	Office (P.E.)
151	Stairwell
152	Shower Room (Girls)
153	Stairs
154	Toilet/Lockers (Girls)
155	Stairwell
156	Gymnasium (Girls)
157	Office (Girls Gym)
158	Toilet (Office)
159	Physical Therapy Room
160	Stairwell
161	Organ Pit Room
162	Dressing Room (Aud.)
163	Auditorium
164	Classroom
165	Classroom
166	Classroom
167	Classroom
168	Corridor
169	Storage Rm.(near #219)
170	Office
171	Classroom
172	Stairwell
173	Office
174	Toilet (Boys)
175	Custodians Closet
176	Stairwell
177	Corridor
178	Classroom
179	Classroom
180	Classroom
181	Classroom
182	Vestibule
183	Records
184	Registration Room
185	School Bank
186	Office
187	Office
188	Office (Attendance)

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Building Capacity Review

space inventory

BUILDING: Cardozo
CLASSIFICATION: Senior High
POPULATION HOUSED: 9 - 12
CONSTRUCTION: 1916

ADDRESS: 13th & Clifton Streets, N.W.
WARD: 1
SQUARE FOOTAGE: 355,400 CAPACITY:1563
CLUSTER: 10 EXTENDED USE:

SPACE NO.	TYPE SPACE
189	Waiting Room
190	Toilet (Asst. Principal)
191	Office (Asst. Principal)
192	Outer Office
193	Corridor
194	Stairs
195	Toilet (Principal)
196	Office (Principal)
197	Office
198	Main Office
199	Office (P.A. System)
200	Storage Room
201	Waiting Room
202	Office (Counselor)
203	Office (Counselor)
204	Office (Counselor)
205	Office (Counselor)
206	Office (Counselor)
207	Office (Counselor)
208	Waiting Room
209	Stairwell
210	Vestibule
211	Office
212	Rest Room (Health)
213	Office
214	Toilet (Health)
215	Toilet (Health)
216	Office (Nurse)
217	Waiting Room (Health)
218	Rest Room (Health)
219	Classroom
220	Science Lab
221	Storage Room
222	Storage Room
223	Corridor
224	Custodians Closet
225	Toilet (Girls)
226	Storage Room
227	Stairwell
228	Corridor
229	Science Lab
230	Science Lab
231	Storage Room
232	Greenhouse
233	Elevator
234	Corridor

SPACE NO.	TYPE SPACE
235	Corridor
236	Balcony
237	Stairwell
238	Balcony
239	Stairwell
240	Classroom
241	Classroom
242	Classroom
243	Classroom
244	Passage
245	Corridor w/Ramp
246	Corridor
247	Storage Closet
248	Storage Room
249	Home Economics Lab
250	Stairwell
251	Storage Room
252	Toilet (Boys)
253	Custodians Closet
254	Vestibule
255	Corridor
256	Living/Dining Rm.
257	Home Economics Lab
258	Storage Room
259	Classroom
260	Storage Room
261	Storage Closet
262	Office
263	Waiting Room
264	Stairwell
265	Classroom
266	Classroom
267	Classroom
268	Classroom
269	Library
270	Corridor
271	Balcony
272	Office (Library)
273	Work Room (Library)
274	Resource Rm.(Library)
275	Storage Room (Library)
276	Corridor w/Ramp
277	Classroom
278	Classroom
279	Stairwell
280	Storage Room

SPACE NO.	TYPE SPACE
281	Science Lab
282	Science Lab
283	Office
284	Custodians Closet
285	Toilet (Girls)
286	Storage Room
287	Corridor
288	Science Lab
289	Toilet (Women)
290	Vestibule
291	Teachers Lounge
292	Classroom
293	Classroom
294	Classroom
295	Stairwell
296	Corridor
297	Elevator
298	VOID
299	VOID
300	Balcony
301	Corridor
302	Office
303	Classroom
304	Corridor
305	Classroom
306	Classroom
307	Classroom
308	Storage Room
309	Stairwell
310	Office
311	Toilet (Boys)
312	Custodians Closet
313	Vestibule
314	Stairwell
315	Corridor
316	Classroom
317	Classroom
318	Classroom
319	Classroom
320	Classroom
321	Office
322	Art Room
323	Storage Room
324	Vestibule
325	Resource Room
326	Conference Room

SPACE NO.	TYPE SPACE
327	Corridor
328	Vestibule w/Steps
329	Storage Room
330	Storage Closet
331	Storage Closet
332	Music (Vocal)
333	Closet (Electrical)
334	Storage Closet
335	Vestibule
336	Storage (Music)
337	Vestibule w/Steps
338	Storage (Music)
339	Music (Instrumental)
340	Storage Room
341	Storage Room
342	Art Room
343	Storage Room
344	Storage Closet
345	Stairwell
346	Classroom
347	Classroom
348	Classroom
349	Classroom
350	Corridor
351	Vestibule
352	Custodians Closet
353	Toilet (Girls)
354	Office
355	Stairwell
356	Office
357	Outer Office
358	Classroom
359	Classroom
360	Classroom
361	Classroom
362	Corridor
363	Corridor
364	Resource Room
365	Elevator
366	Passage (near #239)
367	Storage Closet(nr. 188)
368	Computer Control Rm. (near #188)
369	Toilet (Ofc) (near #150)

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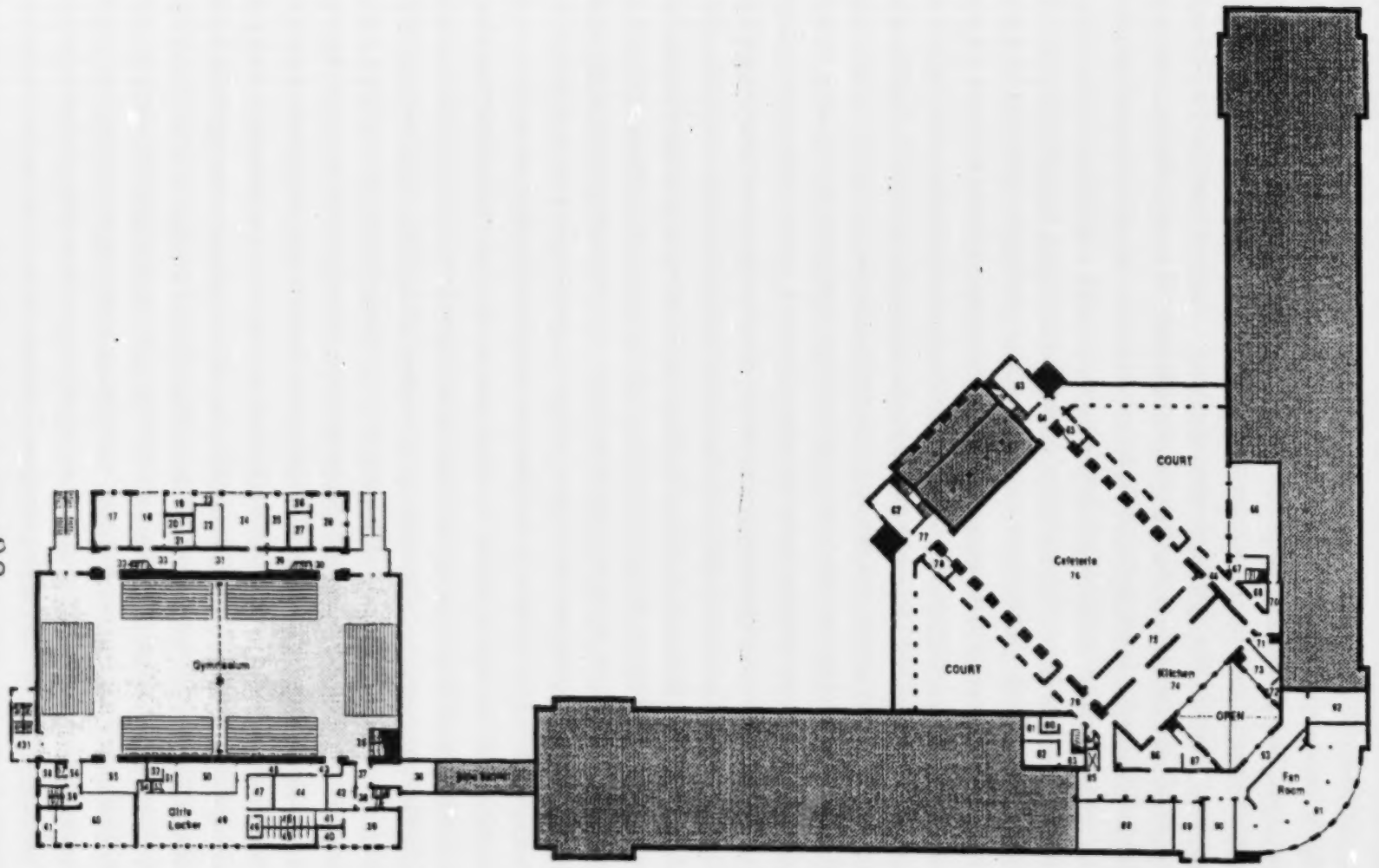

McKinley High School

ground floor

December 1995

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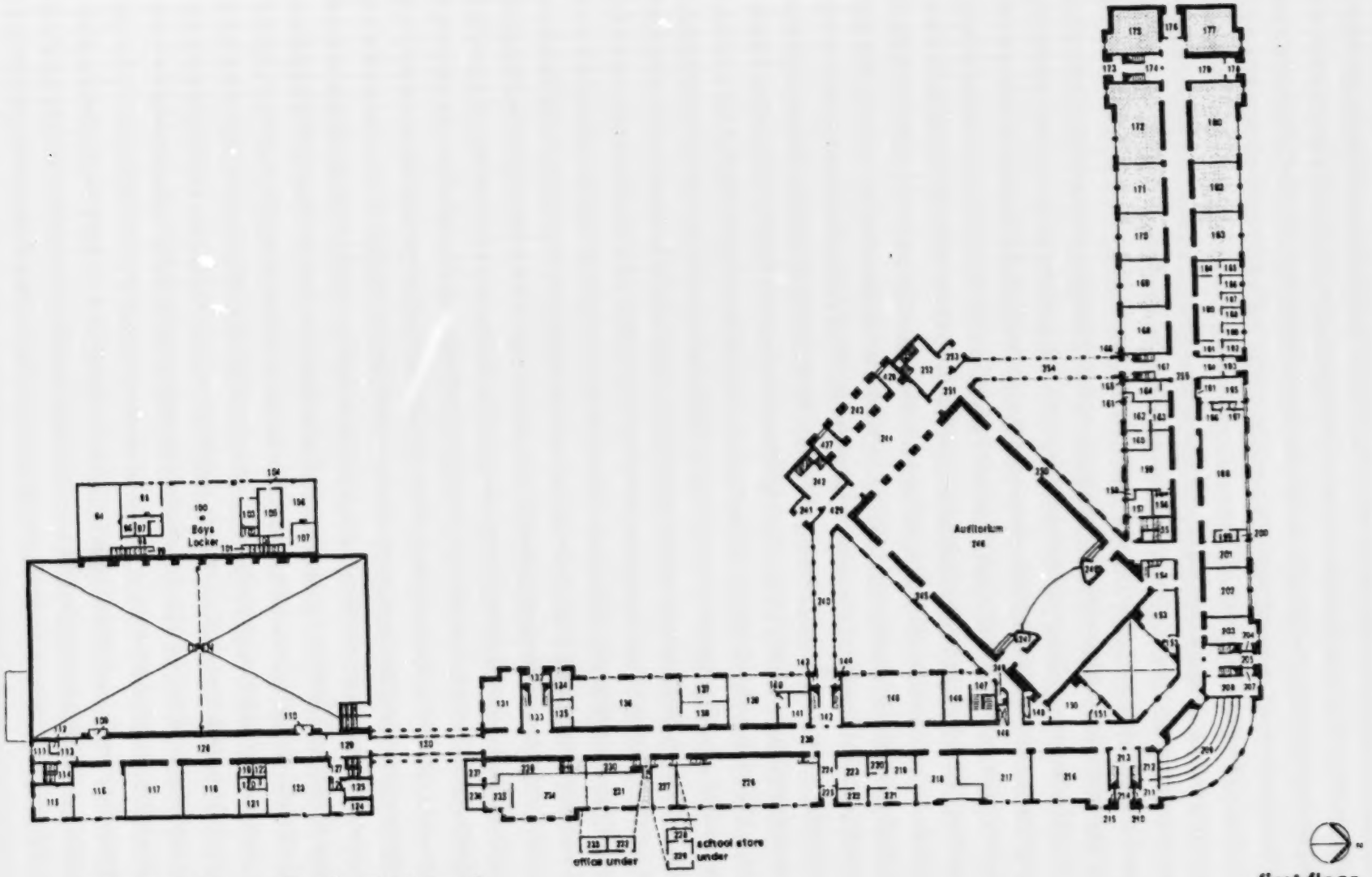

McKinley High School

first floor

December 1995

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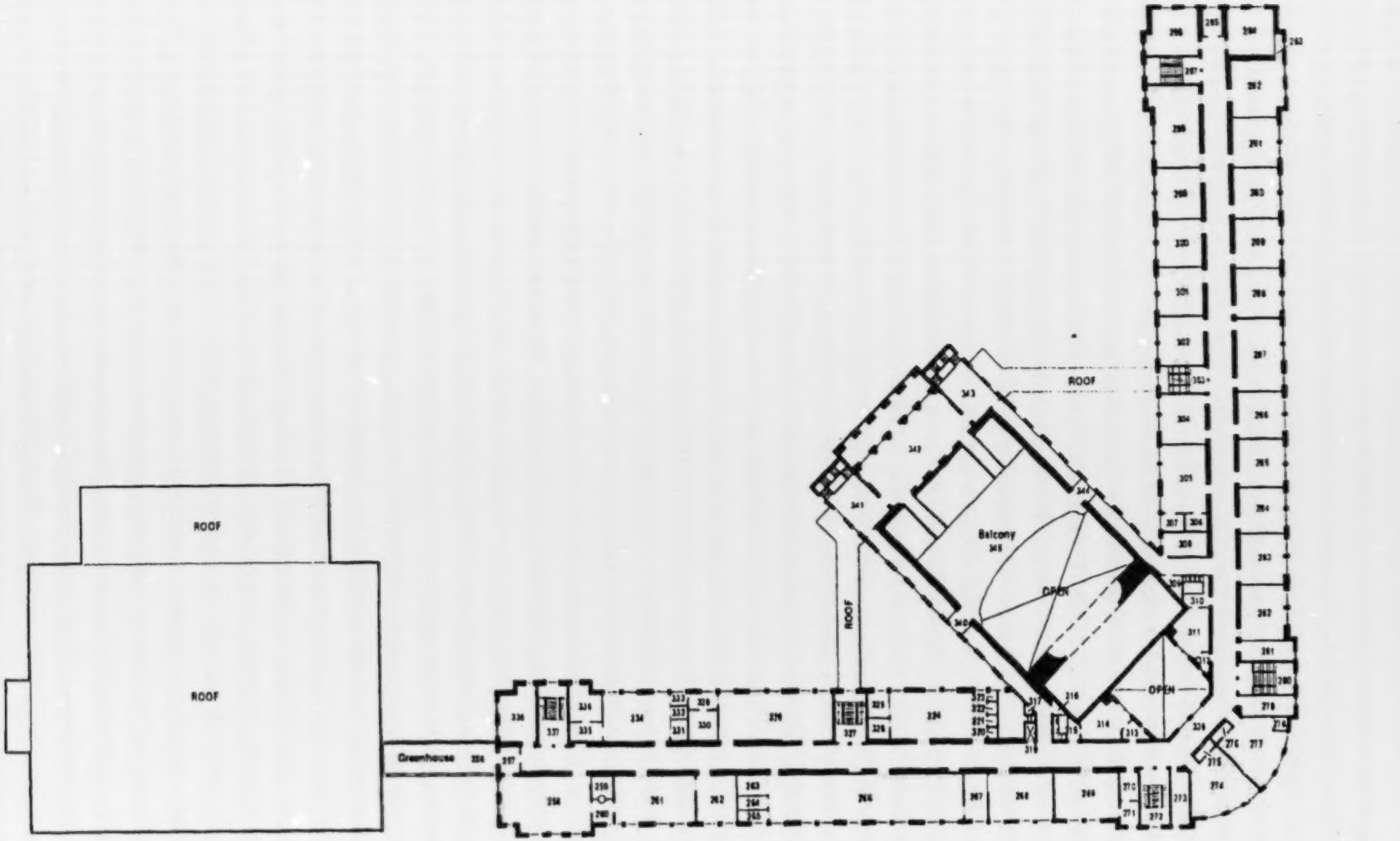

McKinley High School

second floor

December 1995

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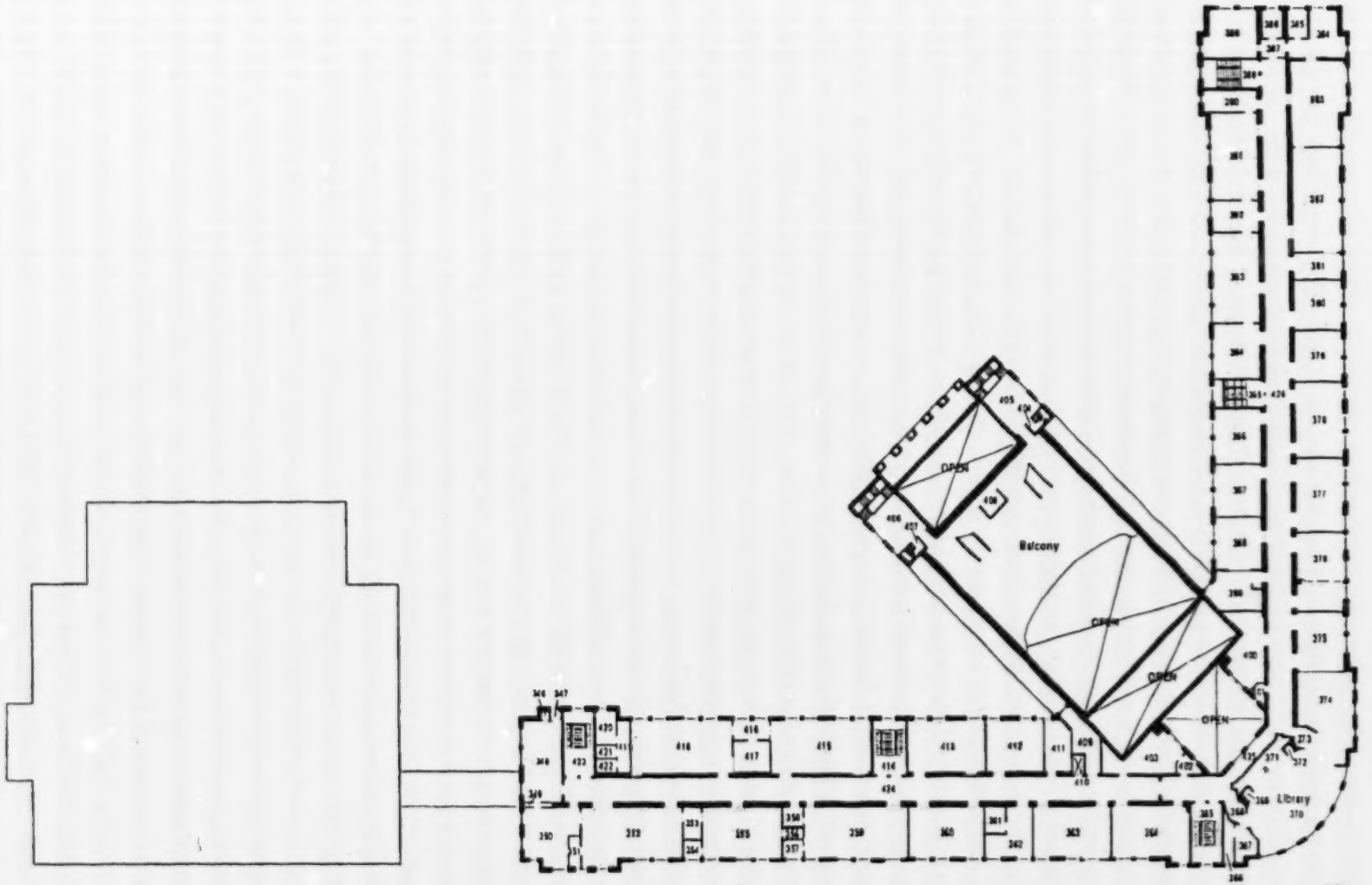

McKinley High School

third floor

December 1995

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Building Capacity Review

space inventory

BUILDING: McKinley
CLASSIFICATION: Senior High
POPULATION HOUSED: 9 - 12
CONSTRUCTION: 1928, 57

ADDRESS: 2nd & T Streets, N.E.
WARD: 5
SQUARE FOOTAGE: 282,200 CAPACITY: 1491
CLUSTER: 4 EXTENDED USE:

SPACE NO.	TYPE SPACE
1	Smoke Stack
2	Office (Engineer)
3	Toilet (Engineer)
4	Toilet (Engineer)
5	Pump Room
6	Boiler Room
7	Stairs
8	Old Coal Storage Room
9	Flammable Storage
10	Vestibule
11	Stairwell
12	Toilet/Shower (Office)
13	Locker Room
14	Office
15	Armory
16	Resource Room
17	Storage Room
18	Office
19	Toilet (Boys)
20	Toilet/Shower (Office)
21	Locker Room
22	Taping Room
23	Passage
24	Team Room
25	Shower Room (Boys)
26	Toilet (Boys)
27	Shower Room (Boys)
28	Team Room
29	Passage
30	Stairs
31	Corridor
32	Stairs
33	Passage
34	Gymnasium
35	Stairs
36	Storage (Chairs)
37	Passage
38	Stairwell
39	Team Room
40	Shower Room (Girls)
41	Toilet (Girls)
42	Taping Room
43	Passage
44	Storage (P.E.)
45	Shower Room (Girls)
46	Storage Room
47	Toilet (Girls)
48	Hallway
49	Locker Room (Girls)
50	Office (Girls Gym)
51	Locker Room
52	Toilet (Office)
53	Shower (Office)
54	Custodians Closet
55	Storge (P.E.)
56	Passage
57	Custodians Closet
58	Storage Room
59	Stairwell
60	Weightlifting Room
61	Laundry Room
62	Toilet (Boys)
63	Toilet (Girls)
64	Stairs/Vestibule
65	Storage Room
66	Teachers Dining Room
67	Stairwell
68	Storge (Kitchen)
69	Hallway
70	Passage
71	Storage (Kitchen)
72	Toilet (Office)
73	Office (Dietician)
74	Kitchen
75	Food Service Area
76	Cafeteria
77	Stairs/Vestibule
78	Dishwashing Room
79	Hallway
80	Toilet (Kitchen)
81	Dressing Rm. (Kitch.)
82	Storage Room (Cust.)
83	Stairwell
84	Storage Room
85	Elevator
86	Can Wash
87	Storage (Kitchen)
88	Storage Room (Cust.)
89	Generator Room
90	Meter Room (Elect.)
91	Fan Room
92	Storage Room
93	Pipe Tunnel
94	Storage Room
95	Office
96	Locker Room
97	Toilet/Shower (Office)
98	Passage
99	Stairs
100	Locker Room (Boys)
101	Stairs
102	Custodians Closet
103	Toilet (Boys)
104	Passage
105	Shower Room (Boys)
106	Drying Area (Boys)
107	Storage Room
108	Passage
109	Press Box
110	Press Box
111	Toilet (Men)
112	Custodians Closet
113	Vestibule
114	Stairwell
115	Storage Room
116	Resource Room (Gym)
117	Resource Room (Gym)
118	Resource Room (Gym)
119	Storage Room
120	Toilet (Office)
121	Office
122	Storage Room
123	Classroom
124	Work Room
125	Toilet (Girls)
126	Vestibule
127	Stairwell
128	Corridor
129	Passage
130	Connecting Corridor
131	Resource Room
132	Vestibule
133	Stairwell
134	Storage Room
135	Storage Room
136	Graphic Arts Lab
137	Dark Room
138	Dark Room
139	Photography Studio Lab
140	Vestibule
141	Dark Room
142	Stairwell
143	Custodians Closet
144	Storage Closet (Cust.)
145	Art Room
146	Toilet (Boys)
147	Stairwell
148	Elevator
149	Vestibule w/Steps
150	Office (Attendance)
151	Toilet (Men)
152	Toilet (Men)
153	Storage Room
154	Stairs/Vestibule
155	Stairwell
156	Mechanical Room
157	Toilet (Girls)
158	Toilet (File Room)
159	File Room
160	Exam Room (Health)
161	Toilet (Health)
162	Office (Nurse)
163	Waiting Room
164	Toilet (Teachers)
165	Custodians Closet
166	Storage Closet (Cust.)
167	Stairwell
168	Classroom
169	Classroom
170	Classroom
171	Classroom
172	Classroom
173	Vestibule
174	Stairwell
175	Classroom
176	Vestibule
177	Classroom
178	Vestibule
179	Hallway
180	Classroom
181	Storage Closet(nr.#195)
182	Classroom
183	Classroom
184	File Room
185	Office (Counselor)
186	Office (Counselor)
187	Office (Counselor)
188	Office (Counselor)

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Building Capacity Review (cont.)

space inventory

BUILDING: McKinley
CLASSIFICATION: Senior High
POPULATION HOUSED: 9 - 12
CONSTRUCTION: 1928, 57

ADDRESS: 2nd & T Streets, N.E.
WARD: 5
SQUARE FOOTAGE: 282,200 CAPACITY:1491
CLUSTER: 4 EXTENDED USE:

SPACE NO.	TYPE SPACE
189	Office (Counselor)
190	Waiting Room
191	Copy Room
192	Office (Counselor)
193	Vestibule
194	Hallway
195	Office (Asst. Principal)
196	Telephone Room
197	Toilet (Asst. Principal)
198	Main Office
199	Toilet (Staff)
200	Toilet (Principal)
201	Office (Principal)
202	School Bank
203	Office
204	Vestibule
205	Vestibule
206	Stairwell
207	Storage Room
208	Office (Attendance)
209	Lecture Room
210	Storage Closet
211	Office
212	Outer Office
213	Stairwell
214	Vestibule
215	Storage Closet
216	Communications Studio
217	Book Room
218	Storage Room (Cust.)
219	Office
220	Storage Room
221	Office (Custodians)
222	Kitchenette
223	Office (Custodians)
224	Hallway
225	Vestibule
226	Student Lounge
227	Office/Resource Room
228	Storage Room
229	Storage Room
230	Storage Area
231	Drivers Ed Room
232	Storage Room
233	Office
234	Classroom
235	Storage Room
236	Storage Room
237	Storage Room
238	Storage Area
239	Corridor
240	Connecting Corridor
241	Vestibule
242	Stairs/Vestibule
243	Vestibule
244	Lobby
245	Corridor
246	Auditorium
247	Storage Room
248	Storage Room
249	Storage Room (Cust.)
250	Corridor
251	Passage
252	Stairs/Vestibule
253	Vestibule
254	Connecting Corridor
255	Corridor
256	Greenhouse
257	Vestibule
258	Science Lab
259	Dark Room
260	Storage Room
261	Science Lab
262	Lecture Room
263	Storage Room
264	Storage Room
265	Storage Room
266	Wood Shop
267	Storage Room
268	Computer Lab
269	Typing Room
270	Teacher Prep. Room
271	Office
272	Stairwell
273	Office
274	Computer Lab
275	Storage Closet
276	Storage Closet
277	Classroom
278	Storage Closet
279	Office
280	Stairwell
281	Office
282	Language Lab
283	Classroom
284	Classroom
285	Classroom
286	Classroom
287	Classroom
288	Classroom
289	Classroom
290	Classroom
291	Classroom
292	Classroom
293	Storage Closet
294	Classroom
295	Teacher Prep. Room
296	Classroom
297	Stairwell
298	Graphic Arts Lab
299	Classroom
300	Classroom
301	Classroom
302	Classroom
303	Stairwell
304	Classroom
305	Teachers Lounge
306	Toilet (Women)
307	Toilet (Men)
308	Toilet (Girls)
309	Fan Room
310	Stairs
311	Office
312	Toilet (Men)
313	Toilet (Women)
314	Office
315	Stairs
316	Storage Closet (Cust.)
317	Storage Closet (Cust.)
318	Toilet (Boys)
319	Elevator
320	Practice Room (Music)
321	Practice Room (Music)
322	Practice Room (Music)
323	Practice Room (Music)
324	Music (Vocal)
325	Storage Room
326	Storage Room (Music)
327	Stairwell
328	Power Mechanics Shop
329	Storage Room
330	Storage Room
331	Storage Room (Music)
332	Storage Room (Music)
333	Practice Room (Music)
334	Music (Instrumental)
335	Office
336	Storage Room (Music)
337	Stairwell
338	Resource Room
339	Corridor
340	Corridor
341	Stairs/Vestibule
342	Commons Area
343	Stairs/Vestibule
344	Corridor
345	Balcony
346	Storage Closet
347	Storage Closet
348	Home Economics Lab
349	Storage Room
350	Living/Dining Room
351	Storage Room
352	Food Lab
353	Laundry Room
354	Storage Room
355	Clothing Lab
356	Storage Room
357	Storage Room
358	Storage Room
359	Home Economics Lab
360	Computer Lab
361	Storage Room
362	Resource Room
363	Mech. Drawing Shop
364	Typing Room
365	Stairwell
366	Storage Room
367	Office (Library)
368	Vestibule
369	Toilet (Library)
370	Library
371	Library Classroom
372	Storage Closet

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Building Capacity Review (cont.)

space inventory

BUILDING: McKinley
CLASSIFICATION: Senior High
POPULATION HOUSED: 9 - 12
CONSTRUCTION: 1928, 57

ADDRESS: 2nd & T Streets, N.E.
WARD: 5
SQUARE FOOTAGE: 282,200 CAPACITY:1491
CLUSTER: 4 EXTENDED USE:

SPACE NO.	TYPE SPACE
373	Vestibule
374	Library Extension
375	Classroom
376	Classroom (flex. part.)
377	Classroom
378	Classroom
379	Classroom
380	Classroom
381	Teacher Prep. Room
382	Science Lab
383	Science Lab
384	Lecture Room
385	Dark Room
386	Dark Room
387	Vestibule
388	Classroom
389	Stairwell
390	Teacher Prep. Room
391	Science Lab
392	Storage (Science)
393	Science Lab
394	Lecture Room
395	Stairwell
396	Computer Lab
397	Classroom
398	Computer Lab
399	Toilet (Girls)
400	T.V. Studio
401	Toilet (Men)
402	Toilet (Women)
403	Office (Asst. Principal)
404	Stairs
405	Stairs
406	Stairs
407	Stairs
408	Projection Booth
409	Office
410	Elevator
411	Toilet (Boys)
412	Mech. Drawing Shop
413	Radio Studio Lab
414	Stairwell
415	Electronics Lab
416	Office
417	Storage Room
418	Pre-Engineering Shop
419	Storage Room
420	Storage Room
421	Storage Room
422	Storage Room
423	Stairwell
424	Corridor
425	Passage
426	Corridor
427	Office (Secur.)(nr#243)
428	Office (Secur.)(nr#243)
429	Passage (near #244)
430	Stairwell (near #10)
431	Stairwell (near #34)

APPENDIX B

LIST OF ROOMS MEASURED AT CARDOZO

Appendix B: List of Rooms Measured at Cardozo

Room	Room ID	Length (ft.)	Width (ft.)	Area (sq. ft.)
CORE ACADEMIC				
Large General Classroom	219	48	24	1,152
Large General Classroom	342	44	24	1,056
Large General Classroom	346	48	24	1,152
Subtotal				**3,360**
Standard General Classroom	165	30	24	720
Standard General Classroom	166	30	24	720
Standard General Classroom	167	30	24	720
Standard General Classroom	171	30	24	720
Standard General Classroom	178	30	24	720
Standard General Classroom	179	30	24	720
Standard General Classroom	240	30	24	720
Standard General Classroom	241	30	24	720
Standard General Classroom	242	30	24	720
Standard General Classroom	292	30	24	720
Standard General Classroom	293	30	24	720
Standard General Classroom	294	30	24	720
Standard General Classroom	305	30	24	720
Standard General Classroom	306	30	24	720
Standard General Classroom	307	30	24	720
Standard General Classroom	316	30	24	720
Standard General Classroom	317	30	24	720
Standard General Classroom	318	30	24	720
Standard General Classroom	347	30	24	720
Standard General Classroom	348	30	24	720
Standard General Classroom	349	30	24	720
Standard General Classroom	358	30	24	720
Standard General Classroom	359	30	24	720
Standard General Classroom	360	30	24	720
Standard General Classroom	361	30	24	720
Subtotal				**18,000**
Small General Classroom	95	24	24	576
Small General Classroom	129	24	24	576
Small General Classroom	164	24	24	576
Small General Classroom	180	24	24	576
Small General Classroom	181	24	24	576
Small General Classroom	243	24	24	576
Small General Classroom	277	24	24	576
Small General Classroom	278	24	24	576
Small General Classroom	303	24	24	576
Small General Classroom	319	24	24	576
Small General Classroom	320	24	24	576
Subtotal				**6,336**
Science Lab	220	48	24	1,152
Science Lab	229	54	24	1,296
Science Lab	230	54	24	1,296
Science Lab	281	48	24	1,152

Appendix B: List of Rooms Measured at Cardozo

Room	Room ID	Length (ft.)	Width (ft.)	Area (sq. ft.)
Science Lab	282	58	24	1,392
Science Lab	288	38	24	912
Subtotal				**7,200**
Computer Lab	48	20	14	280
Computer Lab	91	36	20	720
Computer Lab	134	48	24	1,152
Computer Lab	145	22	22	484
Computer Lab	146	22	22	484
Computer Lab	148	22	22	484
Computer Lab	147	22	22	484
Subtotal				**4,088**
Resource Room	325	26	24	624
Subtotal				**624**
Special Education Classroom	76	30	24	720
Special Education Classroom	78	30	24	720
Special Education Classroom	79	30	24	720
Special Education Classroom	81	30	24	720
Special Education Classroom	265	24	24	576
Special Education Classroom	266	24	24	576
Special Education Classroom	267	24	24	576
Special Education Classroom	268	24	24	576
Special Education Classroom	259	40	24	960
Subtotal				**6,144**
Driver Education Classroom	130	24	24	576
Subtotal				**576**
Teachers Lounge	291	31	24	744
Subtotal				**744**
School Store	138	36	24	864
Subtotal				**864**
Academic Storage Room	92	8	4	32
Academic Storage Room	94	8	4	32
Academic Storage Room	96	24	12	288
Academic Storage Room	132	16	12	192
Academic Storage Room	136	12	10	120
Academic Storage Room	142	26	20	520
Academic Storage Room	200	12	8	96
Academic Storage Room	221	14	6	84
Academic Storage Room	222	14	6	84
Academic Storage Room	226	24	14	336
Academic Storage Room	231	24	10	240
Academic Storage Room	251	20	14	280
Academic Storage Room	280	26	12	312
Academic Storage Room	286	20	14	280

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Appendix B: List of Rooms Measured at Cardozo

Room	Room ID	Length (ft.)	Width (ft.)	Area (sq. ft.)
Academic Storage Room	308	20	12	240
Academic Storage Room	343	24	12	288
Academic Storage Room	344	12	8	96
Subtotal				**3,520**
TOTAL CORE ACADEMIC				**51,456**
CAREER TECH/EDUC				
Electronics Lab	53	38	30	1,140
Subtotal				**1,140**
Auto Mechanics Shop	71	62	58	3,596
Subtotal				**3,596**
Graphic Arts Lab	118	84	24	2,016
Subtotal				**2,016**
Wood Shop	52	76	28	2,128
Wood Shop	49	30	30	900
Subtotal				**3,028**
Home Economics Lab	249	40	24	960
Home Economics Lab	257	52	24	1,248
Home Economics Lab	256	24	20	480
Subtotal				**2,688**
Career Tech Storage Room	47	22	18	396
Career Tech Storage Room	247	12	8	96
Career Tech Storage Room	248	12	12	144
Subtotal				**636**
TOTAL CAREER TECH/EDUC				**13,104**
MEDIA CENTER/LIBRARY				
Stacks	269	80	42	3,360
Subtotal				**3,360**
Office	273	24	25	600
Subtotal				**600**
Work Room	274	24	25	600
Subtotal				**600**
TOTAL MEDIA CENTER/LIBRARY				**4,560**
VISUAL ARTS				
Art Classroom	322	47	24	1,128

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Appendix B: List of Rooms Measured at Cardozo

Room	Room ID	Length (ft.)	Width (ft.)	Area (sq. ft.)
Subtotal				**1,128**
Art Storage Room	323	14	8	112
Subtotal				**112**
TOTAL VISUAL ARTS				**1,240**
PERFORMING ARTS				
Choral Classroom	332	45	40	1,800
Subtotal				**1,800**
Instrumental Classroom	339	46	24	1,104
Subtotal				**1,104**
Choral Storage Room	329	24	12	288
Choral Storage Room	340	12	6	72
Choral Storage Room	341	12	6	72
Subtotal				**432**
TOTAL PERFORMING ARTS				**3,336**
JROTC				
Armory	45	98	36	3,528
Subtotal				**3,528**
Rifle Range	44	98	22	2,156
Subtotal				**2,156**
Office	43	36	24	864
Subtotal				**864**
JROTC Storage Room	40	12	10	120
Subtotal				**120**
TOTAL JROTC				**6,668**
PHYSICAL EDUCATION				
Gymnasium (Boys)	63	94	48	4,512
Gymnasium (Girls)	156	94	48	4,512
Balconies	236;238	48	36	1,728
Subtotal				**10,752**
PE Lockers (Boys)	54-55	22	22	484
PE Showers (Boys)	57	22	20	440
PE Lockers (Girls)	154	42	14	588
PE Showers (Girls)	152	25	14	350
Subtotal				**1,862**

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Appendix B: List of Rooms Measured at Cardozo

Room	Room ID	Length (ft.)	Width (ft.)	Area (sq. ft.)
Athletic Lockers	67	22	18	396
Subtotal				**396**
Swimming Pool	32	94	32	3,008
Pool Lockers/Toilets	31;33-35	80	14	1,120
Pool Office/Storage	39-40	28	10	280
Subtotal				**4,408**
Fitness/Weight Room	60	24	22	528
Fitness/Weight Room	72	60	22	1,320
Subtotal				**1,848**
Department Office	150;157			680
Subtotal				**680**
Training/Physical Therapy				480
Subtotal				**480**
Laundry	68	22	18	396
Subtotal				**396**
P.E. Storage Room	66	22	10	220
P.E. Storage Room	149	16	12	192
Subtotal				**412**
TOTAL PHYSICAL EDUCATION				**21,234**
ADMINISTRATION				
Principal's Office	195-197	38	14	532
Subtotal				**532**
Assistant Principal's Office	190-192	38	14	532
Subtotal				**532**
Administration Offices	198-199	36	22	792
Subtotal				**792**
Administration Offices	186-189	24	24	576
Subtotal				**576**
Administration Offices	100-101	38	12	456
Subtotal				**456**
Administration Offices	133;173;262;310;321;354;356;357			2,024
Subtotal				**2,024**
Registration Room	184	24	24	576

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Appendix B: List of Rooms Measured at Cardozo

Room	Room ID	Length (ft.)	Width (ft.)	Area (sq. ft.)
Subtotal				**576**
Records	183	24	24	576
Subtotal				**576**
Nurse/Health Suite	211-218	48	24	1,152
Subtotal				**1,152**
School Bank	185	24	24	576
Subtotal				**576**
Book Room	144	38	12	456
Subtotal				**456**
In School Suspension	5-11	80	22	1,760
Subtotal				**1,760**
TANIFF	87	88	22	1,936
TANIFF	99	46	24	1,104
Subtotal				**3,040**
TOTAL ADMINISTRATION				**13,048**
GUIDANCE				
Offices/Waiting	201-208	48	24	1,152
Subtotal				**1,152**
TOTAL GUIDANCE				**1,152**
DINING/COMMONS				
Cafeteria	110	92	70	6,440
Subtotal				**6,440**
Kitchen	108-109	92	16	1,472
Subtotal				**1,472**
Dining Storage	83-85	72	24	1,728
Subtotal				**1,728**
Auditorium Stage	163	20	92	1,840
Subtotal				**1,840**
Auditorium Floor	161-163	100	92	9,200
Auditorium Balcony (1st)	271	92	48	4,416
Auditorium Balcony (2nd)	300	92	48	4,416
Subtotal				**18,032**
TOTAL DINING/COMMONS				**29,512**

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APPENDIX C

COMPARISON BETWEEN CARDOZO AND STANDARD ED SPECS OF NET FLOOR AREAS AND STUDENT CAPACITIES

Appendix C: Comparison Between Cardozo and Standard Ed Specs of Net Floor Areas and Student Capacities

Room Category	Unit Sq. Ft.		Quantity		Total Sq. Ft.		Unit Capacity		Teaching Stations		Total Capacity	
	Proposed	Current	Proposed	Current	Proposed	Current	Proposed	Current	Proposed	Current	Proposed	Current
Core Academic												
Large Classrooms	0	1,056-1,152	0	3	0	3,360	0	21	0	3	0	63
Standard Classrooms	850	720	22	25	18,700	18,000	21	21	22	25	462	525
Small Classrooms	0	576	0	11	0	6,336	0	15	0	11	0	165
Science Class/Lab	1,300	912-1,392	6	6	7,800	7,200	21	21	6	6	126	126
Science Prep	400	0	2	0	800	0	0	0	0	0	0	0
Technology Lab	1,000	280-484	4	7	4,000	4,088	18	18	2	7	36	126
Resource Room	600	624	2	1	1,200	624	0	0	2	1	0	0
Special Education	3,100	576-960	1	9	3,100	6,144	10	10	1	9	10	90
Driver Education	0	576	0	1	0	576	0	10	0	1	0	10
Teachers Lounge	1,000	744	2	1	2,000	744	0	0	0	0	0	0
Small Group Rooms	100	0	6	0	600	0	0	0	0	0	0	0
Lockers	1,000	0	2	0	2,000	0	0	0	0	0	0	0
Student Services	650	0	2	0	1,300	0	0	0	0	0	0	0
School Store	200	864	1	1	200	864	0	0	0	0	0	0
Core Academic Storage	1,000	32-520	1	17	1,000	3,520	0	0	0	0	0	0
Subtotal Core Academic			**51**	**82**	**42,700**	**51,456**			**33**	**63**	**634**	**1,105**
Career Tech. & Educ.												
Technical Teaching Lab	3,800	0	1	0	3,800	0	18	0	1	0	18	0
Electronics Lab	0	1,140	0	1	0	1,140	0	18	0	1	0	18
Auto Mechanics Shop	0	3,596	0	1	0	3,596	0	18	0	1	0	18
Graphic Arts	0	2,016	0	1	0	2,016	0	18	0	1	0	18
Wood Shop	0	900-2,128	0	2	0	3,028	0	18	0	1	0	18
Home Economics	0	480-1,248	0	3	0	2,688	0	18	0	1	0	18
Teacher Workroom	150	0	1	0	150	0	0	0	0	0	0	0
Office	150	0	1	0	150	0	0	0	0	0	0	0
Storage	275	96-396	1	3	275	636	0	0	0	0	0	0
Subtotal Career Tech. & Educ.			**4**	**11**	**4,375**	**13,104**			**1**	**5**	**18**	**90**
Media Center/Library												
Stacks, Reading, Circ.	1,800	3,360	1	1	1,800	3,360	0	0	0	0	0	0
Office	150	600	1	1	150	600	0	0	0	0	0	0
Workroom	300	600	1	1	300	600	0	0	0	0	0	0

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Appendix C: Comparison Between Cardozo and Standard Ed Specs of Net Floor Areas and Student Capacities

Room Category	Unit Sq. Ft.		Quantity		Total Sq. Ft.		Unit Capacity		Teaching Stations		Total Capacity	
	Proposed	Current	Proposed	Current	Proposed	Current	Proposed	Current	Proposed	Current	Proposed	Current
Computer Resource Area	800	0	1	0	800	0	0	0	0	0	0	0
Media Production Area	800	0	1	0	800	0	0	0	0	0	0	0
Periodical Storage	225	0	1	0	225	0	0	0	0	0	0	0
Equipment Storage	275	0	1	0	275	0	0	0	0	0	0	0
Subtotal Media Center/Library			**7**	**3**	**4,350**	**4,560**			**0**	**0**	**0**	**0**
Visual Arts												
Classroom	1,300	1,128	1	1	1,300	1,128	21	21	1	1	21	21
Kiln Room	150	0	1	0	150	0	0	0	0	0	0	0
Storage	150	112	1	1	150	112	0	0	0	0	0	0
Subtotal Visual Arts			**3**	**2**	**1,600**	**1,240**			**1**	**1**	**21**	**21**
Performing Arts												
Choral Room	1,100	1,800	1	1	1,100	1,800	21	35	1	1	21	35
Choral Practice Room	75-125	0	2	0	200	0	0	0	0	0	0	0
Music Library	250	0	1	0	250	0	0	0	0	0	0	0
Instrumental Room	1,400	1,104	1	1	1,400	1,104	21	21	1	1	21	21
Instrum. Practice Room	75-125	0	2	0	200	0	0	0	0	0	0	0
Office (shared w/Visual)	300	0	1	0	300	0	0	0	0	0	0	0
Scene Shop	400	0	1	0	400	0	0	0	0	0	0	0
Costume/Prop Room	175	0	1	0	175	0	0	0	0	0	0	0
Make-up/Dressing Room	325	0	2	0	650	0	0	0	0	0	0	0
Storage	300-350	72-288	3	3	950	432	0	0	0	0	0	0
Subtotal Performing Arts			**15**	**5**	**5,625**	**3,336**			**2**	**2**	**42**	**56**
JROTC												
Armory/Learning Center	1,200	3,528	1	1	1,200	3,528	21	21	1	1	21	21
Rifle Range	0	2,156	0	1	0	2,156	0	0	0	0	0	0
Office	200	864	1	1	200	864	0	0	0	0	0	0
Storage	600	120	1	1	600	120	0	0	0	0	0	0
Subtotal JROTC			**3**	**4**	**2,000**	**6,668**			**1**	**1**	**21**	**21**
Physical Education												
Gymnasium	11,000	4,512	1	2	11,000	9,024	42	21	1	2	42	42
Balconies	0	1,728	0	2	0	1,728						

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Appendix C: Comparison Between Cardozo and Standard Ed Specs of Net Floor Areas and Student Capacities

Room Category	Unit Sq. Ft.		Quantity		Total Sq. Ft.		Unit Capacity		Teaching Stations		Total Capacity	
	Proposed	Current	Proposed	Current	Proposed	Current	Proposed	Current	Proposed	Current	Proposed	Current
Lockers/Showers (PE)	1,000	350-588	2	2	2,000	1,862	0	0	0	0	0	0
Athletic Locker Room	1,000	396	2	1	2,000	396	0	0	0	0	0	0
Pool	0	4,408	0	1	0	4,408	0	0	0	0	0	0
Fitness/Weight Room	900	528-1,320	1	2	900	1,848	21	0	1	0	21	0
Health Classroom	850	0	1	0	850	0	21	0	1	0	21	0
Office	150	680	1	1	150	680	0	0	0	0	0	0
Teacher Workroom	600	0	1	0	600	0	0	0	0	0	0	0
Concession	400	0	1	0	400	0	0	0	0	0	0	0
Training/Physical Therapy	350	480	1	1	350	480	0	0	0	0	0	0
Laundry	150	396	1	1	150	396	0	0	0	0	0	0
Storage	varies	192-220	4	2	1,400	412	0	0	0	0	0	0
Subtotal Physical Education			**16**	**15**	**19,800**	**21,234**			**3**	**2**	**84**	**42**
Administration												
Principal's Office	530	532	1	1	530	532	0	0	0	0	0	0
Asst. Principal's Office	200	532	1	1	200	532	0	0	0	0	0	0
Administration Offices	1,475	various	1	3	1,475	3,848	0	0	0	0	0	0
Registration	0	576	0	1	0	576	0	0	0	0	0	0
Records	200	576	1	1	200	576	0	0	0	0	0	0
Nurse/Health Suite	710	1,152	1	1	710	1,152	0	0	0	0	0	0
School Bank	0	576	0	1	0	576	0	0	0	0	0	0
Book Room	450	456	1	1	450	456	0	0	0	0	0	0
In School Suspension	0	1,760	0	1	0	1,760	0	0	0	0	0	0
TANIFF	0	1,104-1,936	0	2	0	3,040						
Lobby	500	0	1	0	500	0	0	0	0	0	0	0
Mail Room	150	0	1	0	150	0	0	0	0	0	0	0
Staff Break Room	250	0	1	0	250	0	0	0	0	0	0	0
Parent Resource Center	275	0	1	0	275	0	0	0	0	0	0	0
Telecom/Head End Room	250	0	1	0	250	0	0	0	0	0	0	0
Storage	450	0	1	0	450	0	0	0	0	0	0	0
Subtotal Administration			**12**	**13**	**5,440**	**13,048**			**0**	**0**	**0**	**0**
Guidance												
Offices/Waiting	1,550	1,152	1	1	1,550	1,152	0	0	0	0	0	0
Subtotal Guidance			**1**	**1**	**1,550**	**1,152**			**0**	**0**	**0**	**0**

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Appendix C: Comparison Between Cardozo and Standard Ed Specs of Net Floor Areas and Student Capacities

Room Category	Unit Sq. Ft.		Quantity		Total Sq. Ft.		Unit Capacity		Teaching Stations		Total Capacity	
	Proposed	Current	Proposed	Current	Proposed	Current	Proposed	Current	Proposed	Current	Proposed	Current
Dining/Commons												
Cafeteria	3,300	6,440	1	1	3,300	6,440	0	0	0	0	0	0
Kitchen	2,350	1,472	1	1	2,350	1,472	0	0	0	0	0	0
Dining Storage	1,150	1,728	1	1	1,150	1,728	0	0	0	0	0	0
Toilet/Shower/Lockers	100	0	2	0	200	0	0	0	0	0	0	0
Stage	1,600	1,840	1	1	1,600	1,840	0	0	0	0	0	0
Ticket Booth/Box Office	75	0	1	0	75	0	0	0	0	0	0	0
Sound/Light Control Room	125	0	1	0	125	0	0	0	0	0	0	0
Chair/Piano Storage	350	0	1	0	350	0	0	0	0	0	0	0
Auditorium	0	18,032	0	1	0	18,032	0	0	0	0	0	0
Subtotal Dining/Commons			**9**	**5**	**9,150**	**29,512**			**0**	**0**	**0**	**0**

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